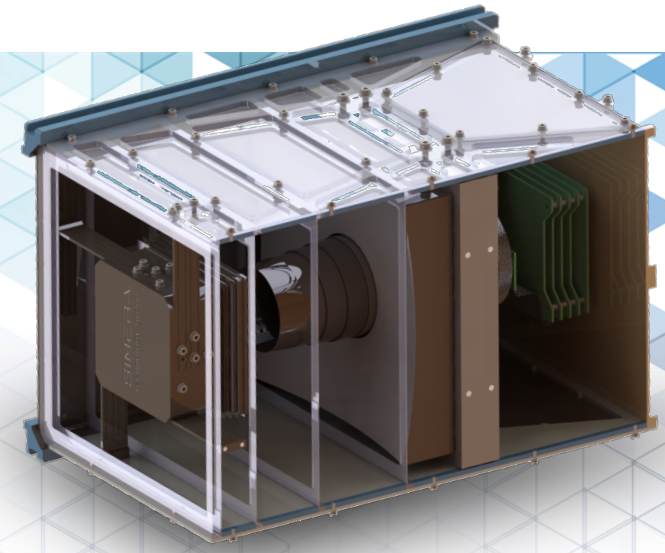

SCS IGUANA IMAGER

The SCS Iguana Imager is a microsatellite imager that

- optimally uses the aperture offered by a 12U form factor
- provides visible, red-edge and near-infra red coverage at medium
- is designed for compact microsatellites and 16U cubesats

The Iguana imager consists of high performance optics with a large square aperture.
The imager´s control electronics offers on-board image processing and an integrated high speed buffer.

Compact enough to serve as the optical payload on a 16U CubeSat, this camera offers high performance in a compact envelope.

Up to eight spectral bands spanning the visible and near-infra red domains can be defined to satisfy the end user´s individual needs. Bands are customizable on a per-satellite basis.

Extensive integrated non-volatile on-board storage allows Iguana to be used without a separate mass storage unit.

Together, these properties allow Iguana to satisfy demanding requirements for cost-effective performance vs mass in the CubeSat and microsatelite industry.

	IGUANA 12U
Spatial resolution @ 500 km	2 m GSD
Swath @ 500 km	15 km
Spectral range	450 - 950 nm
Number of spectral bands†	8 bands
Configurabilty of spectral bands	Yes
SNR†	≥ 200 PAN, ≥ 75 Multispectral
Digitization	10 bits
Data interfaces† (user configurable)	I2C, SPI, QSPI, LVDS, CAN
Integrated mass storage†	256 GB
Volume of imager	12U (22 cm x 22 cm x 33 cm)
Mass	< 8 kg
Image Processing	On-board JPEG2000 (lossless or configurable lossy)
Power Consumption	5W (configuration & playback) 8W (active imaging)
Operational temperature	+10°C to +40°C

†Depends on chosen configuration

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